User manual

Velo-Plus²

CE

Van Raam BV
Aaltenseweg 56
7051 CM Varsseveld
The Netherlands

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Contact details manufacturer

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Conformity

Van Raam declares as manufacturer that the Velo-Plus² bicycle has been produced in accordance with the 93/42/EEG guidelines.

Introduction

This user manual gives important and necessary information about the use of your bicycle. We ask you to go through the manual thoroughly before using the bicycle.

READ THOROUGHLY!

Delivery

- bicycle with possible packaging
- user manuals (s)
- pump
- possible charger (s), depending on options

Intended usage

The bicycle is designed for normal use on level and solid ground. The usual bicycle caution should always be taken into consideration. At the same time all safety instructions as described in this manual should be complied with explicitly. Also the local traffic rules should always be complied with.

All other use, including damage or physical injuries due to this, are not the manufacturer's responsibility.

Safety measures

- Ensure the bicycle is in good condition each time before using it.
- Check before **each** ride that the brakes are in order.
- Check the lights and reflectors.
- Regularly check whether all screw joints are tight.
- Regularly check whether the wheels, the handlebars and the saddle are secure.
- Make sure there is sufficient air in the tyres.
- Only use the bicycle on a **solid and level surface**.
- Make sure that wide trousers or lose hanging clothing don't get caught in the chain, spokes or pedals.
- Do not use a pressure washer or a steam cleaner for the cleaning of the bicycle.
- Use the parking brake if the wheelchair is driven on or off the ramp.
- **Never** place your feet or other limbs under the ramp. You can be hit by moving parts and suffer from bruises.
- Always place the wheelchair in the driving direction.

Load
The maximum load should not be exceeded. See information in the index of technical details on page 18. By permitted load we mean the total load, including the wheelchair and load on the luggage rack.

Make sure that the permitted load on the luggage rack is not exceeded.

Damaged or worn out parts
The replacement and repair of parts (frame, forks, illumination, brakes, drive mechanism and the handle bars) should **always** be performed by a dealer. If not, the guarantee ceases to be valid and you will be personally responsible in the event of possible damage.

Specific safety parts should **always** be replaced by new parts!

Delivery inspection

Check the delivery immediately after receiving it.
In the event of damage or incomplete delivery we ask you to contact your dealer immediately.

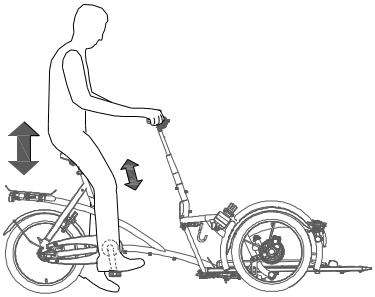
Adjustment of the bicycle

Before using the bicycle, adjust it to the measurements of the cyclist. This is of great importance, especially the saddle and the handlebars.

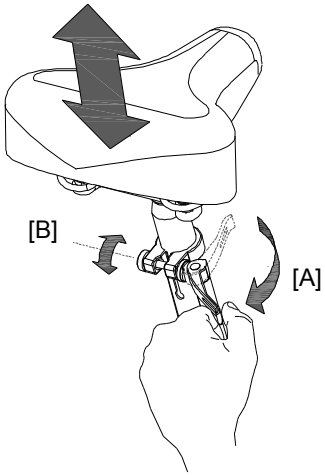
If an optimal adjustment of the bicycle, as defined in the instructions, is not possible, you can contact your dealer for a fitting solution.

The brakes are correctly adjusted as standard and can only be adjusted by the dealer during periodic maintenance.

Saddle height
When the cyclist is sitting on the bicycle and can put a foot on the pedal in the lowest position, the saddle height is correct. Adjust the saddle height in such a way that the leg is stretched but relaxed in that position.



To adjust the saddle:
1. Open the quick-clamp [A].
2. Slide the saddle to the correct height.
3. Close the quick-clamp.

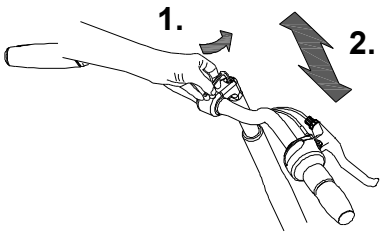


Make sure clothing cannot get caught in the clamp!

If the clamp closes too easily, the clamping force is too low. In this case, open the clamp and tighten the nut (B) a bit more. If a lot of force is necessary to close the clamp, the nut should be loosened slightly.

Do not pull out the saddle pin **further** than the marking. The tube will not go into the shank deep enough and will risk coming off. This can lead to serious injuries.

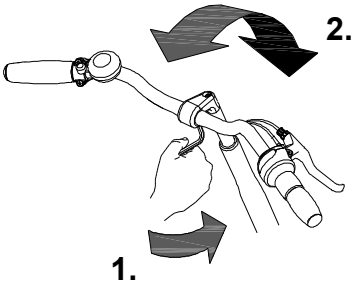
Handle bar height
The height of the handle bars affects the comfort of the ride. It determines the pressure on the hands and the position of the back. Determine your own most comfortable height by using the bike.



To adjust the handle bars:
1. Slightly loosen the screw by using an Allen key.
2. Slide the handle bars to the correct height and tighten the screw very firmly again.

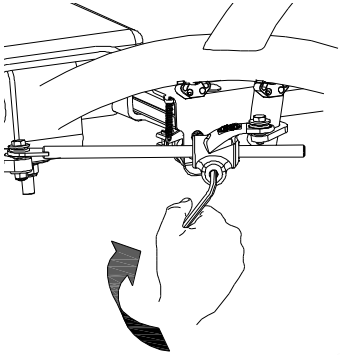
> Do **not** pull out the handle bars **further** than the mark. Otherwise the tube will not be deep enough in the shaft and will risk coming off, which can lead to serious injuries.

Position handle bars
You can tilt the handle bars. This influences the distance from the handle bars to the upper body. Determine your own most comfortable position by using the bike.



To tilt the handle bars:
1. Slightly loosen the screw with an Allen key.
2. Put the handle bars in the desired position and then tighten the screw very firmly again.

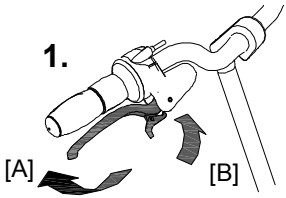
Steering damper
The steering damper affects the stability during steering. By adjusting the screw, steering gets more rigid and stability will increase. Determine your own most comfortable setting for using the bike.

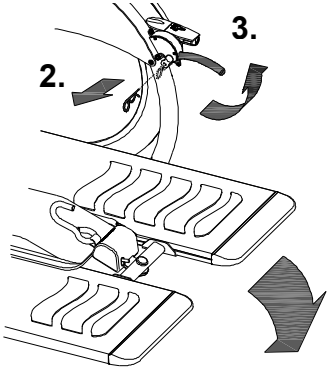


Wheelchair transport

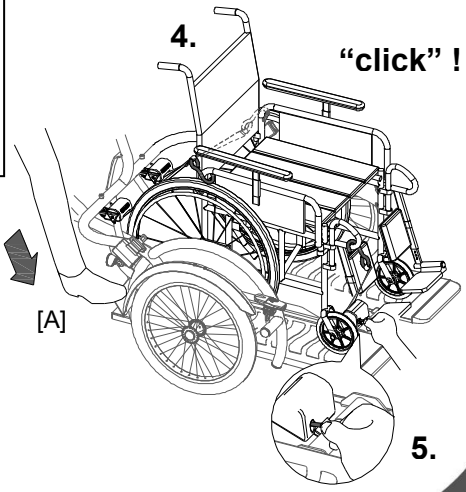
If you want to transport a wheelchair on the Velo-Plus², follow the instructions below.

1. Attach the parking brake to the bike by squeezing the right brake [A] and lock it with the pin [B].
2. Remove the safety pin.
3. Pull the handle up so the ramp unlocks and falls down.
4. Push the wheelchair backwards on the ramp. Push the wheelchair until the ramp is tilting and locks itself automatically with a clear noticeable click.
5. Attach the wheelchair with the three belts. Push the button to release the belt and attach the hooks to the wheelchair.

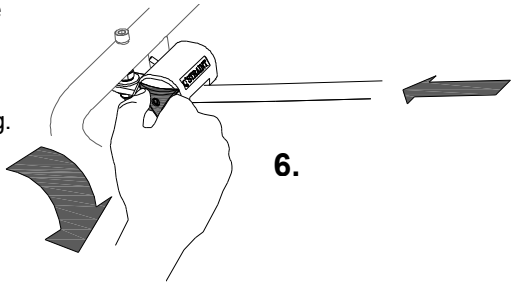


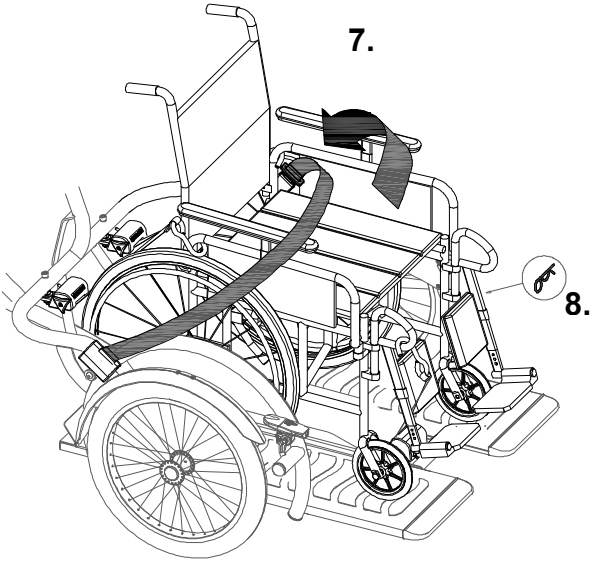


> **Be sure** that the ramp is locking! Failing to do so may result in serious injuries.
> If the ramp does not lock properly then use your foot [A] to push until the ramp locks.



6. Next, turn the star knob to tighten the belts.
7. Finally fasten the safety belt of the passenger.
8. Replace the safety pin in the coupling.





To remove the wheelchair from the bike, follow these steps in reverse order.

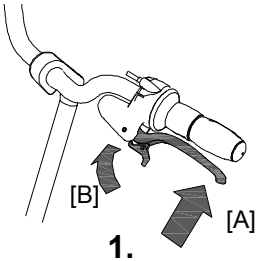
Caution: Stop the wheelchair when you release the hooks so that it will not roll off the ramp.

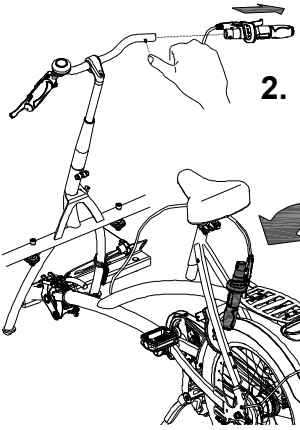
Accessories

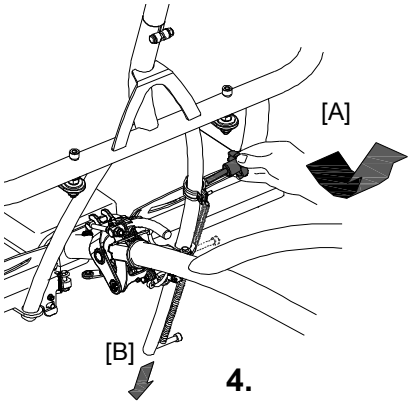
Depending on your order, you can use the accessories as described below.

Dividable frame
The ramp can be disconnected from the bike, which can be convenient if, for example, you want to store the bike.

To disconnect the ramp:
1. Use the parking brake by pressing the left brake [A] and securing the brake with the pellet [B].
2. Remove the grip (with the gear) from the handle bars. Push the pellet of the small spring so the grip can be removed from the handle bars.
3. Hang the grip together with the brake handle on the luggage rack or other suitable parts.
4. Lower the support. Loosen knob [A], push down support [B] with your hand or foot and then fasten the knob again

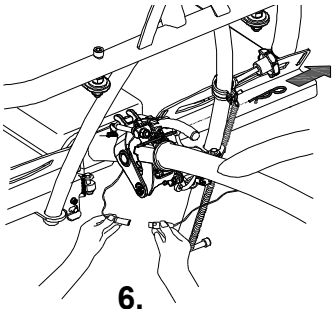


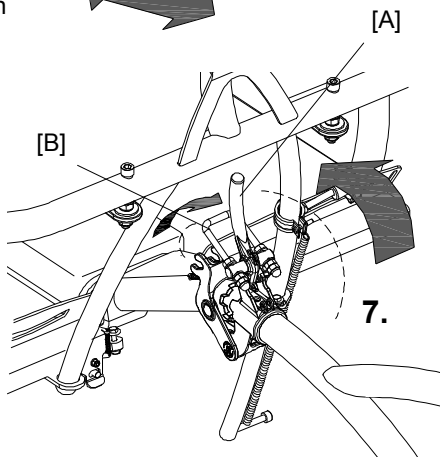


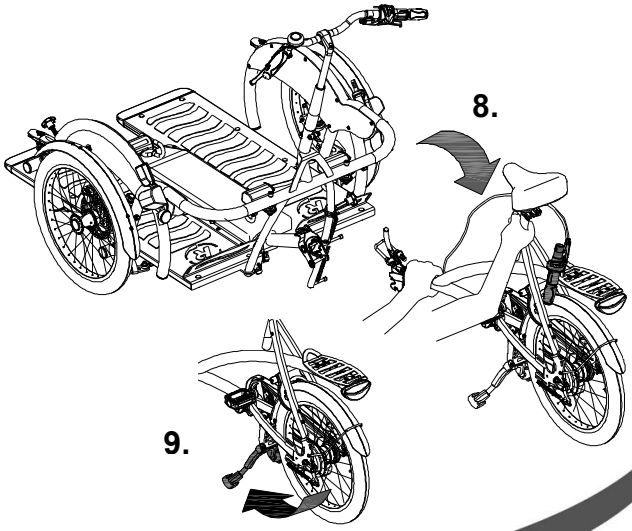


5. Remove the safety pin.
6. **Optional:** Loosen the cables when you have an electric motor.
7. Pull the lever [A] up. Detach the bracket [B] and pull the lever back.
8. Remove the bike apart from the coupling. **Caution:** this is heavy! Hold the frame firmly in both hands and place the rear part on the stand.
9. Place the bike on the stand.

To reassemble the bike, follow these steps in reverse order.





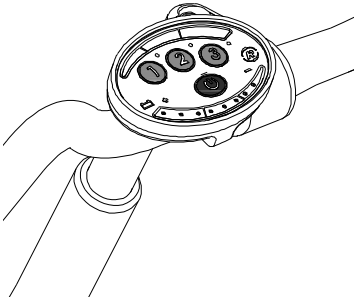


Electric motors
The bicycle can be supplied with an electric motor. There are 2 types available.

Accelerator:
The electric motor is operated by using the accelerator. By using the cockpit you start the motor and determine the power of the motor. This motor accelerates and drives with a speed up to 6 km/h maximum. For more speed the cyclist has to pedal as well.

Pas-Vario:
The electric motor is operated by the cockpit. With this cockpit you switch the engine on/off and you can also determine the power of the motor. This motor only supports the cycling and does not accelerate.

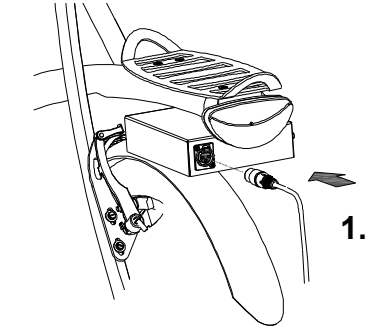
Use of the cockpit (same in both types):
Press one of the buttons, 1, 2 or 3 to start the electric motor. With these buttons you can determine the power of the motor, also during cycling.
With the red button you shut down the system.
If the system is not used, it will automatically shut itself down after a period of time.

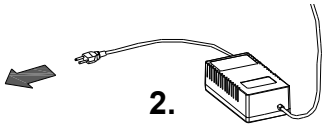


When walking backwards with the bicycle, always turn off the motor.

Charging the battery:
The charging point is situated under the luggage rack. To charge the battery:

1. **First** connect the charger plug to the charging point under the luggage rack.
2. Put the charger plug in the wall socket.
3. Depending on the state of the battery, it needs 4 to 12 hours to charge. The battery is completely charged when the green lamp lights up.
4. As soon as the battery is charged, **first** take the plug from the wall socket and then disconnect the charger from the bicycle.





Depending on your order this charger is delivered.

> When charging, **first** connect the plug to the charging point on the bicycle and **then** put the plug in the wall socket!
> When charged, **first** take the plug from the wall socket and **then** disconnect the charger from the bicycle!

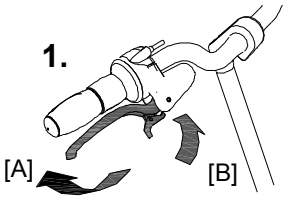
Beware:

- Charge the battery until the green lamp lights up.
- **Never** interrupt the charging process.
- For the lifespan of the battery it is better to charge the battery when it is almost discharged.
- It is damaging for the battery if it is not used for more than 2 months. In that case charge the battery every now and then.
- The case of the charger may not be opened by the buyer. In the event of problems go to your dealer!
- Only use the charger in non-humid indoor spaces.
- Below 5 degrees Celsius the charger will not function properly. In that case it is advisable to charge the batteries indoors.

Extra accessories are available at your dealer.

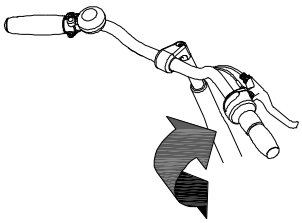
Parking brake
Always use the parking brake if you park the bicycle and leave it behind.
To operate the parking brake, squeeze the right brake [A] and lock it with the pin [B].

By squeezing the brake again it will unlock itself.

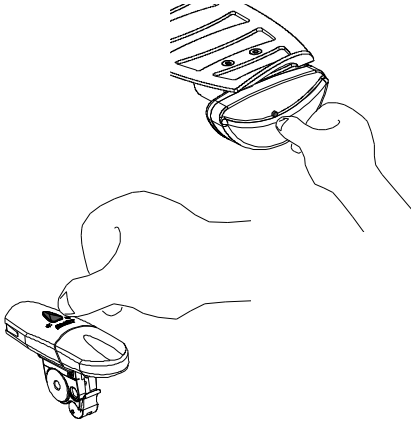


Gears
Standard the bicycle has 8 gears. The gears are used by turning the grip. **Do not use the pedals** when turning the grip.

Option: When your bike has an electric motor, there are 6 gears.

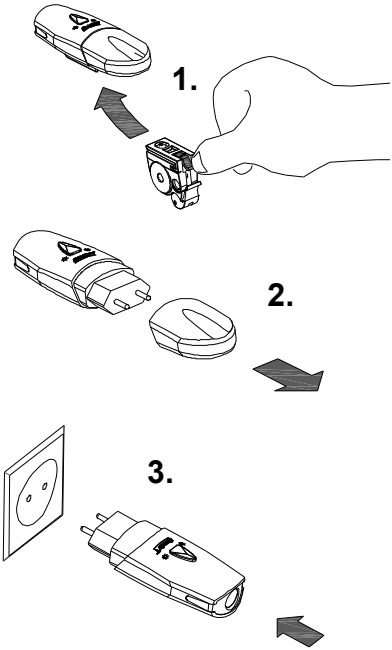


Illumination
The lights work on batteries. Push the button to switch the lights on and off. Both lights have 2 modes; steady and flashing.



The front light has rechargeable batteries. When the light on the lamp is red, the lamp must be charged. The lamp can be charged in the wall socket. To do this:

1. Push the pellet and slide the lamp out of the holding device.
2. Remove the cover from the lamp.
3. Put the lamp in the wall socket. The charge light on the lamp will be on.
4. As soon as the charge light turns off, the lamp is charged. To fully charge the lamp, leave it plugged in for another 6 hours, after the charge light has expired.



For the lifespan of the batteries, we recommend charging the lamp once every 3 months, when not used for a longer period.

Check before every ride:

- the brakes (including the parking brakes)
- the tyre pressure
- the illumination
- that all parts are secure

Contact your dealer and do not use your bicycle if you identify any irregularities!

As with all mechanical parts, the bicycle is subject to wear and tear and high loading. If a component fails, it can lead to very dangerous situations. This can lead to damage or injuries to the user of the bicycle. Any form of tearing, scratching or changing of colour is an indication that the part should be replaced.

Points of interest during cycling
After you have adjusted the bicycle to the measurements of the cyclist and the passenger, you can start using the bike.

The tricycle gives a very different ride experience than a bicycle with two wheels!

Practice, in particular, with bends and braking, because a tricycle can react contrary to what you would expect. It may happen that the front wheel comes off the ground on the inside when going round a bend. To avoid this the rider leans towards the inside of the bend with his body.

High speeds in the bends, driving on rough ground, and sharp bends can lead to the tricycle **falling over**!

Important safety points for the cyclist

- Go very carefully during the first ride.
- When riding the bicycle hold both hands firmly on the handle bars and feet on the pedals.
- Test the riding style of the bicycle on rough ground at moderate speed. This way the cyclist learns how to react to unexpected movements of the bicycle and the handle bars during use.
- Explore how the tilting movements of the bicycle react to body posture. Tilt to the inside of the bend.
- Small obstacles should be cycled over with appropriate speed.
- Obstacles higher than 5 cm should be avoided.

Technical details

Length (cm)	243
Width (cm)	110
Boarding height (cm)	52
Front wheel	20“
Back wheel	20“
Weight (kg)	From 49
Max. load luggage rack (kg)	20
Total max. load (kg)	220
Brakes, front	Disk brakes
Brakes, back	Drum brakes / Rim brakes

Maintenance and adjustments to be done by owner

Below you can find the instructions for maintenance and adjustments that you can do yourself on a regular basis, which will keep your bicycle in top condition.

Cleaning
The frame of the bicycle can be cleaned with a damp cloth. For areas that are dirtier you can use a mild detergent. The wheels can be cleaned with a damp brush with plastic hairs (not a wire brush!) The saddle and the grips can be cleaned with mild soap and water.

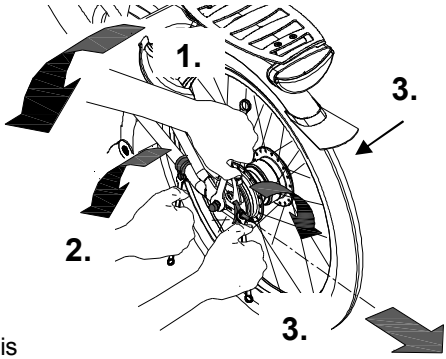
Do not use a pressure washer or a steam cleaner!

Inspection of the bicycle
After 200 kilometres or after a period of 2 months the bicycle should be inspected. Check the brakes, the illumination and the spokes. Also check the tyre tread depth. This should be at least 1 mm. Worn out tyres or possible faulty parts should be replaced.

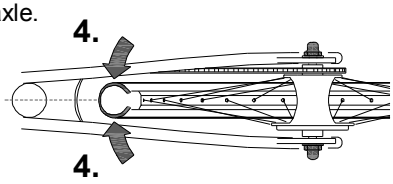
Also check the parking brake. With the parking brake pulled up, the bicycle should not ride away with the cyclist.

The correct tension of the chain
The chain should not be too tight. It should hang loose. Without effort you should be able to move the chain up and down, half a centimetre approximately.

To keep the chain tension correct, the back wheel axle is adjusted. Follow the instructions below:



1. Slightly loosen the nuts of the back wheel axle, so that it can move backwards and forwards.
2. Slightly loosen the nut of the bracket, so it can also move.
3. By tightening the adjusting nuts **at both sides**, the back wheel slowly moves backwards. Tighten the adjusting nuts in such a way that the chain is hanging loose, as described above.
4. At the same time, make sure that the wheel is straight and positioned in the centre of the frame, as illustrated. Not to the left or to the right.
5. Slightly tighten the nuts of the back wheel axle.
6. Check whether the chain tension is correct and whether the wheel is straight and in the centre of the frame.
7. Tighten all the nuts again.



The right lubricant
The chain should be cleaned and maintained at regular intervals (every 3 months approximately). Only use special chain grease or Tevlon spray. This is the only way to make sure that the chain will run smoothly, will stay water resistant and will not rust. Wipe the chain with a cloth, treat it with grease or spray and remove any excess lubricant with a rag.

Other parts should not be treated with a lubricant.

Checking the rim
Due to the combined action of the brake and the rims, not only the brake lining but also the condition of the rim is important. For this reason the rim should be checked at regular intervals, for example when you inflate the tyres. The presence of fine cracks in the spoke punches or deformation of the rim when there is higher air pressure, indicate more serious wear and tear. In that case the rim should be replaced, because it can lead to loss of brake function or even a crack in the rim, which can lead to all kinds of dangerous consequences.

Repairs and maintenance to be done by dealer

It is recommended that the bicycle has a yearly inspection carried out by the dealer. In the event of technical trouble or faults, the bicycle should be taken to the dealer for repairs **immediately**.

The replacing of safety-related components (especially frame, brakes, illumination, handle bars, front fork and actuation) should be performed by the dealer.

If you still decide you want to replace components yourself, you are responsible for damage or harm due to incorrectly fitted components.
Only use **original** spare parts, which you can buy at you dealer. If requested the dealer will make the necessary information on repair and maintenance available.

Disposal

If you want to dispose your bicycle, contact your dealer. You can also contact the local waste disposal company. They will dispose the bicycle according to the regulations of your town.

Handover/sale to a new owner

When you hand over your bicycle to a new owner it is important that you also hand over all necessary technical documentation so that the new owner can use the bicycle safely.

Guarantee

The guarantee is valid for all faults in the product, which are proven to be caused by material or manufacturing error.

For our bicycles we give a guarantee of 5 years on the frame and the front fork. For the paint, all accessories and other parts (except wear parts) we provide a 2 year guarantee, as legally regulated.

Beware!
The guarantee as well as the product liability in general expires if the instructions stated in this manual are not followed. This is also the case if unauthorized maintenance is carried out or if technical changes or additions are made without permission of Van Raam.

Frame number

The frame number is printed on the sticker. This sticker is located on the frame, see the image below.

Example sticker:

Frame number

Position of sticker:

on the frame tube